

CANCER REGISTRY

CANCER INCIDENCE IN SRI LANKA

1990



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**CANCER CONTROL PROGRAMME,
MINISTRY OF HEALTH,
SRI LANKA**

CANCER REGISTRY

CANCER INCIDENCE IN SRI LANKA
1990

**CANCER CONTROL PROGRAMME
CANCER INSTITUTE
MAHARAGAMA,
SRI LANKA.**

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Cancer registry provides individual core data, tabulations, statistical analysis etc. The statistical analysis and related computer work in preparation of this report is primarily done by Mr. M. G. W. Suraweera, Bio-Statistician attached to Cancer Control Programme under the supervision of the Director.



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FOREWORD

The present publication on "Cancer Incidence in Sri Lanka 1990" is the fourth of its series. The first was published in 1990 enclosing the cancer registry data for the year 1985.

Cancer epidemiology was handled by the Epidemiology Unit of the Ministry of Health since 1980. National Cancer Control Programme was established by the Ministry of Health with the assistance of the World Health Organization in 1980. However, till 1990 whatever statistics available on cancer was from the Epidemiology Unit of the Ministry of Health. Only in 1990 we were able to prepare the first cancer registry.

These registries consist of statistics obtained from three institutions where cancer patients are treated. i. e. Cancer Institute Maharagama and Cancer Units attached to General Hospital Kandy and Teaching Hospital Galle. In these institutions cancer patients received both in-door and out-door treatment and Radiotherapy facilities are available.

The present cancer registry provides the cancer incidence for the year 1990. It does not provide a community based cancer incidence. Its figures are obtained from the three institutions mentioned above. Approximately about 80% to 90% patients receive Radiotherapy at some stage of the treatment scheduled. These facilities being available only from the above three institutions this register indicates a short fall of 10 - 20% of the actual population based cancer registry. However, this registry being prepared annually, certainly indicates the trend. It provides information regarding primary site, sex, ethnic group etc.

At the first time of this series, present volume provides the mortality information of cancer. However, it does not provide details regarding the primary locations of cancer because these secondary information may not be much accurate for primary locations as the most registrars of deaths who are primarily responsible for recording the cause of death being non-medical persons. Some new features such as geographical distribution, classification of Leukaemia which were introduced in the previous volumes have also been improved. In addition to these it provides several important statistical measures such as age adjusted incidence rates for World Population and Population in Developing Countries, median age, lifetime risk etc. for each primary location of cancer.

Cancer Control Programme is making every attempt to provide more information in our future publications. Our shortcomings if any, could mainly be attributed to limited funds and manpower. Let me thank the WHO for financial assistance for the preparation of this cancer registry and the staff of the Cancer Control Programme for their dedication is making this publication a success.

Dr. Bernard Randeniya
Director
Cancer Control Programme,
Sri Lanka.

OVERVIEW

About 0.03% of Sri Lankan population contract cancer every year and it was experienced that the incidence of cancer in relation to females is slightly higher than the males. The susceptible age group for a Cancer is mostly between 45-65 years. The lifetime risk of cancer which indicates the likelihood of developing a cancer disease before attaining to 70 years of a person is approximately 5%.

In 1990, total of 6063 cancer cases have been reported to Cancer Institute Maharagama and two other cancer units attached to Kandy and Galle General Hospitals. The distribution of cases among these hospitals was 4560, 1067 and 436 respectively. Total number of cases reported in 1990 is a 21% increase in comparison of 1985.

The total number of natural deaths registered in 1989 was 82,451 in which 5.4% was due to cancer. The crude mortality rate in cancer for the same year was 26.6 while the national mortality rate at 490. The highest mortality in relation to cancer has been reported from 45 – 64 years age group and was 10% of the total deaths reported in the same age group.

In 1990, the leading sites of cancer in relation to males were Oropharyngeal (34.5%), Oesophageal (8.5%), Lung (8.5%) and Larynx (5.4%) and in relation to females were Breast (20.7%), Cervix (17.7%), Oropharyngeal (12.1%), Ovary (6.5%) and Thyroid (5.3%). It is noteworthy that nearly 60% of reported cases of males were tobacco related cancers which are preventable. Of the females nearly 50% of reported cases were cancers in the reproductive system and are mostly curable if diagnosed in early stages.

The paediatric cancers are formed 4.4% of the total cases in 1990. The most leading childhood cancers reported were Acute Lymphoid Leukaemia (37%), Bones and Articular Cartilages (11%) and Brain (10%).

The Clinical Stages before the treatment of 6063 new cancer cases reported were 42.7% localized tumors, 10.7% direct extensions, 17.4% regional lymph node involvements, 7.9% distant metastasis-specify sites, 6.9% of advance stages and 13.9% of unknown. The Treatments provided for these new cancer cases reported that 80.5% Radiotherapy, 33.3% Chemotherapy and 24.5% Surgery.

As in geographical distribution of previous volumes, the patients seeking treatments were heavily scattered over the administrative districts Colombo, Kandy and Galle where the facilities available for treatments. This may be due to the patients in distant places, for their own conveniences the addresses given are close to the institutions. Incidences reported in these districts were 72.0, 57.8 and 46.5 respectively. Incidence of other districts excluding the districts in North-East province, in which the social life is not normal due to war situation, were varying from 15 to 45.

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MORTALITY IN CANCER 1989

MORTALITY BY SEX

Sex	Deaths Due to Cancer		Total Deaths*	
	No.	%	No.	%
Male	2,374	53.00	49,332	59.83
(%)	(4.81)		(100.0)	
Female	2,105	47.00	33,119	40.17
(%)	(6.35)		(100.00)	
Total	4,479	100.00	82,451	100.00
(%)	(5.43)		(100.00)	

MORTALITY BY AGE

Age	No. of Deaths due to Cancer	Total No. of Deaths*	Mid year population (in '000)	Age-specific Death Rates (Population 10 ⁵)	
				Cancer	Total
0- 4	84	8,264	2,102	4.0	393
5-14	114	1,659	3,821	3.0	43
15-24	128	1,953	3,547	3.6	55
25-44	641	7,432	4,461	14.4	167
45-64	2,071	20,266	2,167	95.6	935
65-74	1,025	17,627	491	208.7	3,590
75+	416	25,250	236	176.3	10,700
Total	4,479	82,451	16,825	26.6	490

Note: * Total deaths excluding accidents, suicides, homicides, poisoning etc.

Sources: Registrar-General's Department, Department of Census and Statistics.

AGE SPECIFIC INCIDENCE OF ALL CANCERS IN 1990

Age Group	MALE		FEMALE	
	No. of Cases	ASI Rate	No. of Cases	ASI Rate
0 - 4	53	4.9	33	3.2
5 - 9	40	4.1	30	3.2
10 - 14	60	6.1	48	5.1
15 - 19	50	5.4	37	4.1
20 - 24	41	4.8	52	6.0
25 - 29	64	8.8	76	10.5
30 - 34	81	12.4	139	22.0
35 - 39	105	21.7	240	50.4
40 - 44	177	42.9	280	72.4
45 - 49	219	61.9	377	109.3
50 - 54	348	107.1	379	128.0
55 - 59	384	151.2	402	174.8
60 - 64	440	208.5	335	185.1
65 - 69	368	240.5	325	233.8
70 - 74	282	251.8	176	185.3
74 < =	267	217.1	155	134.8
Total	2979		3084	
Crude Rate		34.4		37.0
AAIR (World)		38.5		46.9
AAIR (Developing)		33.2		39.6
Life Time Risk		4.40%		5.04%

Statistics

	1985			1990		
	Male	Female	Total	Male	Female	Total
No.	2564	2448	5012	2979	3084	6083
Crude Incidence Rate	31.7	31.5	31.6	34.4	37.0	35.7

Notes:

- ASI Rate : Age Specific Incidence per 100,000 population of Sri Lanka.
- AAIR (World) : Age Adjusted Incidence Rate for World Population. (incidence per 100,000 to the world standard population.)
- AAIR (Developing) : Age Adjusted Incidence Rate for Developing Countries. (incidence per 100,000 population in less developed regions*.)

* Less developed regions comprise all regions of Africa, all regions of Latin America, all regions of Asia excluding Japan, Malanesia, Micronesia and Polynesia (Ref. "The Sex and Age Distributions of Population"; 1994 Revision-United Nations).

NEW CANCER CASES DIAGNOSED IN 1990 BY PRIMARY SITE AND SEX

ICD O	Primary Site	Male		Female		Total	
		No.	%	No.	%	No.	%
140	Lip	19	0.6	14	0.5	33	0.5
141	Tongue	202	6.8	69	2.2	271	4.5
142	Salivary Gland	24	0.8	16	0.5	40	0.7
143	Gum	68	2.3	32	1.0	100	1.6
144	Floor of Mouth	41	1.4	5	0.2	46	0.8
145	Other & unspecified Parts of mouth	471	15.8	182	5.9	653	10.8
146	Oropharynx	68	2.3	24	0.8	92	1.5
147	Nasopharynx	16	0.5	6	0.2	22	0.4
148	Hypopharynx	111	3.7	29	0.9	140	2.3
149	Pharynx & III Defined Sites	32	1.1	14	0.5	46	0.8
150	Oesophagus	254	8.5	290	9.4	544	9.0
151	Stomach	66	2.2	39	1.3	105	1.7
152	Small Intestine	6	0.2	2	0.1	8	0.1
153	Colon	39	1.3	25	0.8	64	1.1
154	Rectum, Anal Canal & Anus	60	2.0	54	1.8	114	1.9
155	Liver & Intrahepatic Bile Ducts	30	1.0	15	0.5	45	0.7
156	Gallbladder & Bile Ducts	5	0.2	5	0.2	10	0.2
157	Pancreas	24	0.8	15	0.5	39	0.6
158	Retroperitoneum & Peritoneum	8	0.3	2	0.1	10	0.2
159	Other Sites within Digestive Organs	-	-	1	0.1	1	0.0
160	Nasal Cavities, Sinuses, Ear	46	1.5	24	0.8	70	1.2
161	Larynx	162	5.4	27	0.9	189	3.1
162	Trachea, Bronchus & Lung	252	8.5	52	1.7	304	5.0
163	Pleura	1	0.1	-	-	1	0.0
164	Thymus, Heart & Mediastinum	11	0.4	6	0.2	17	0.3
169	Hematopoietic & Reticuloendothelial Sys.	337	11.3	234	7.6	571	9.4
170	Bones, Joints & Articular Cartilage	61	2.0	43	1.4	104	1.7
171	Connective & Other Soft Tissues	17	0.6	6	0.2	23	0.4
173	Skin	69	2.3	29	0.9	98	1.6
174	Female Breast	-	-	640	20.8	640	10.6
175	Male Breast	14	0.5	-	-	14	0.2
179	Uterus	-	-	49	1.6	49	0.8
180	Cervix Uteri	-	-	547	17.7	547	9.0
182	Corpus Uteri	-	-	19	0.6	19	0.3
183	Ovary, Fallopian Tube & Broad Ligament	-	-	201	6.5	201	3.3
184	Other & Female Genital Organs	-	-	33	1.1	33	0.5
185	Prostate Gland	51	1.7	-	-	51	0.8
186	Testis	21	0.7	-	-	21	0.3
187	Penis & Other Genital Organs	31	1.0	-	-	31	0.5
188	Urinary bladder	51	1.7	19	0.6	70	1.2
189	Kidney & Other Urinary Organs	27	0.9	18	0.6	45	0.7
190	Eye & Lacrimal Gland	12	0.4	9	0.3	21	0.3
191	Brain	58	1.9	26	0.8	84	1.4
192	Other & Parts of Nervous System	13	0.4	6	0.2	19	0.3
193	Thyroid Gland	62	2.1	163	5.3	225	3.7
194	Other Endocrine Glands	2	0.1	2	0.1	4	0.1
195	Other III-Defined Sites	53	1.8	40	1.3	93	1.5
196	Lymph Nodes	12	0.4	2	0.1	14	0.2
199	Unknown Primary Sites	72	2.4	50	1.6	122	2.0
TOTAL		2979	100.0	3084	100.0	6063	100.0
%			49.1		50.9		100.0

New Cancer Cases Diagnosed in 1990 by Primary Site and Age

ICD O	Age																Total	%
	<5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75<=		
140				1	1	2	1	1	1		4	2	6	4	4	6	33	0.5
141						1	3	13	10	27	47	39	43	35	24	29	271	4.5
142			1	1	2	1	4	7		3	4	4	5	3	2	3	40	0.7
143							1	2	3	8	15	9	12	14	20	16	100	1.6
144								1	5	6	3	11	6	7	4	3	46	0.8
145	1		1		1	2	5	8	28	45	90	100	122	104	68	78	653	10.8
146								3	6	7	11	19	18	12	7	9	92	1.5
147		1	1	2	1		1	1	2	1	1	5	3	1	1	1	22	0.4
148				1		2	2	5	9	11	12	26	25	18	16	13	140	2.3
149						1	4		4	4		5	11	7	4	6	46	0.8
150							6	10	29	53	76	105	83	81	55	46	544	9.0
151			1			7	1	8	9	11	17	20	11	11	6	3	105	1.7
152						1				1	1	3	1			1	8	0.1
153			2			4	1	3	9	3	6	14	8	8	5	1	64	1.1
154				1	1	4	8	9	8	6	14	15	13	15	7	13	114	1.9
155	3	1		1		1	3	4	3	7	2	2	8	4	4	2	45	0.7
156							1	3			2	1	2	1			10	0.2
157								1	7	4	3	10	7	5	2		39	0.6
158							1	1	2		1	1	2			1	10	0.2
159															1		1	0.0
160			2	1	1	1	5	2	2	2	8	7	15	5	14	5	70	1.2
161				2	3		1	2	8	15	33	27	28	35	23	12	189	3.1
162					2		9	7	21	28	41	40	77	43	26	10	304	5.0
163			1														1	0.0
164				3		2	2	3	1		1	3	1	1			17	0.3
169	41	41	53	41	28	27	25	38	35	40	37	33	41	38	27	26	571	9.4
170	3	7	18	11	7	8	4	3	4	7	7	10	4	1	5	5	104	1.7
171	1		1	1	2	1	3		3	1	2	2	2	4			23	0.4
173			1	1		5	5	8	10	9	12	8	7	5	10	17	98	1.6
174		1			2	11	45	82	103	122	77	62	49	39	22	25	640	10.6
175									1		1	3	3	3	2	1	14	0.2
179	1			2	3	5	1	5	4	4	8	5	5	4	2		49	0.8
180	1				3	5	16	40	54	69	84	79	58	72	39	27	547	9.0
182								1	2	4	3	6	2	1			19	0.3
183			6	2	6	9	17	19	14	27	31	31	19	12	3	5	201	3.3
184				1			1	3	3	2	2	2	6	3	4	6	33	0.5
185				1					1			9	5	16	11	8	51	0.8
186					2	4		8	2	2	1		1	1			21	0.3
187							1	3	1	6	3	4	4	3	2	4	31	0.5
188	1						1	1	1	10	8	7	9	12	9	11	70	1.2
189	5	1				1	2	1	3	6	6	8	7	2	2	1	45	0.7
190	12	2			2		1	1		1	1	1					21	0.3
191	6	9	10	2	4	8	9	9	8	6	8	2	3				84	1.4
192	4	4	2					4	2	2	1						19	0.3
193		1	1	6	9	23	22	21	22	21	17	21	15	25	10	11	225	3.7
194			1		1				1	1							4	0.1
195	3	2	6	3	5	1	4	2	8	5	10	5	11	15	6	7	93	1.5
196				1					2	3	1	1	4				14	0.2
199	4			2	7	3	4	2	6	7	13	19	16	19	10	10	122	2.0
Total	86	70	108	87	93	140	220	345	457	596	727	786	775	693	458	422	6063	
%	1.4	1.2	1.8	1.4	1.5	2.3	3.6	5.7	7.5	9.8	12.0	13.0	12.8	11.4	7.6	7.0	100.0	

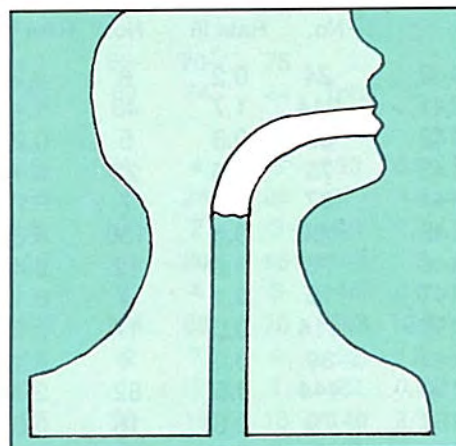
New Cancer Cases Diagnosed in 1990 by Primary Site and Ethnicity

ICD-O	Sinhala		Tamil		Moor		Burger		Other		Total	
	No.	Rate III	No.	Rate III	No.	Rate III	No.	Rate III	No.	Rate III	No.	%
140	24	0.2	6	0.2	3	0.2					33	0.5
141	214	1.7	43	1.4	12	0.9	1	2.5	1	2.0	271	4.5
142	33	0.3	5	0.2	2	0.1					40	0.7
143	75	0.6	22	0.7	3	0.2					100	1.6
144	37	0.3	7	0.2	2	0.1					46	0.8
145	480	3.8	130	4.3	41	3.1	1	2.5	1	2.0	653	10.0
146	76	0.6	12	0.4	4	0.3					92	1.5
147	15	0.1	4	0.1	3	0.2					22	0.4
148	114	0.9	17	0.6	8	0.6			1	2.0	140	2.3
149	39	0.3	4	0.1	3	0.2					46	0.8
150	444	3.5	82	2.7	18	1.4					544	9.0
151	79	0.6	18	0.6	8	0.6					105	1.7
152	7	0.0	1	0.0							8	0.1
153	54	0.4	3	0.1	7	0.5					64	1.1
154	101	0.8	10	0.3	3	0.2					114	1.9
155	44	0.3	1	0.0							45	0.7
156	8	0.1	2	0.1							10	0.2
157	31	0.2	6	0.2	2	0.1					39	0.6
158	9	0.1	1	0.0							10	0.2
159	1	0.0									1	0.0
160	61	0.5	6	0.2	3	0.2					70	1.2
161	157	1.2	21	0.7	11	0.8					189	3.1
162	252	2.0	23	0.7	29	2.2					304	5.0
163	1	0.0									1	0.0
164	14	0.1	2	0.1	1	0.1					17	0.3
169	488	3.9	40	1.3	42	3.2	1	2.5			571	9.4
170	82	0.6	14	0.5	7	0.5			1	2.0	104	1.7
171	19	0.1	2	0.1	2	0.1					23	0.4
173	86	0.7	9	0.3	3	0.2					98	1.6
174	559	4.4	42	1.4	36	2.7	2	5.0	1	2.0	640	10.6
175	12	0.1			2	0.1					14	0.2
179	43	0.3	1	0.0	5	0.4					49	0.8
180	449	3.6	78	2.6	18	1.4	1	2.5	1	2.0	547	9.0
182	16	0.1	2	0.1			1	2.5			19	0.3
183	170	1.3	20	0.7	9	0.7	2	5.0			201	3.3
184	31	0.2	1	0.0	1	0.1					33	0.5
185	47	0.4	2	0.1	1	0.1	1	2.5			51	0.8
186	18	0.1	3	0.1							21	0.3
187	21	0.2	10	0.3							31	0.5
188	53	0.4	13	0.4	2	0.1	2	5.0			70	1.2
189	41	0.3	3	0.1	1	0.1					45	0.7
190	17	0.1	2	0.1	2	0.1					21	0.3
191	74	0.6	5	0.2	5	0.4					84	1.4
192	17	0.1	1	0.0	1	0.1					19	0.3
193	202	1.6	14	0.5	9	0.7					225	3.7
194	3	0.0	1	0.0							4	0.1
195	75	0.6	5	0.2	13	1.0					93	1.5
196	9	0.1	4	0.1	1	0.1					14	0.2
199	109	0.9	8	0.3	5	0.4					122	2.0
TOTAL	5011	39.9	706	23.3	328	25.0	12	30.7	6	11.3	6063	100.0
%	82.6		11.6		5.4		0.2		0.1		100.0	

Rate III: Incidence per 100,00 population according to the ethnic composition of Sri Lanka.

LIP ORAL CAVITY AND PHARYNX

ICD No. 140, 141, 143 – 149



Incidence		Male	Female
Crude Rate	:	11.9	4.5
Age Adjusted Rate (World)	:	13.6	5.7
Age Adjusted Rate (Developing)	:	11.3	4.8
Lifetime Risk	:	1.63%	0.67%
Median Age (Years)	:	60.0	60.0

Statistics (1985–87)

Year	1985		1986		1987	
	No.	C.R.*	No.	C.R.*	No.	C.R.*
Male	1007	12.5	946	11.5	854	10.2
Female	209	3.7	335	4.2	332	4.1

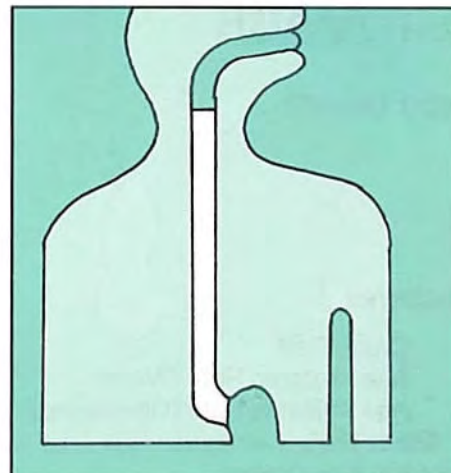
Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	1	0.1	–	–
5 – 9	–	–	1	0.1
10 – 14	2	0.2	3	0.3
15 – 19	1	0.1	2	0.2
20 – 24	1	0.1	2	0.2
25 – 29	6	0.8	7	1.0
30 – 34	10	1.5	14	2.2
35 – 39	20	4.1	21	4.4
40 – 44	47	11.4	38	9.8
45 – 49	71	20.1	50	14.5
50 – 54	133	40.9	49	16.6
55 – 59	167	65.7	65	28.3
60 – 64	181	85.8	56	30.9
65 – 69	146	95.4	35	25.2
70 – 74	113	100.9	32	33.7
75 <=	129	104.9	–	–
Total	1028	11.9	375	4.5

(Incidence: per 100,000 Population)

(* C. R. : Crude incidence rate)

OESOPHAGUS

ICD No. 150



Incidence	Male	Female
Crude Rate	2.9	3.5
Age Adjusted Rate (World)	3.3	4.7
Age Adjusted Rate (Developing)	2.8	3.8
Lifetime Risk	0.40%	0.56%
Median Age (Years)	60.0	58.0

Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C.R.*
Male	195	2.4	209	2.5	213	2.6
Female	246	3.2	266	3.4	267	3.3

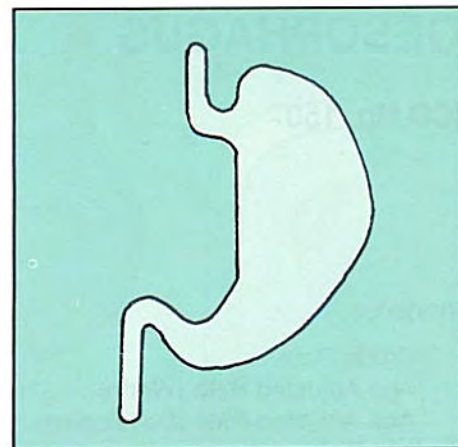
Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	–	–	–	–
5 – 9	–	–	–	–
10 – 14	–	–	–	–
15 – 19	–	–	–	–
20 – 24	–	–	–	–
25 – 29	–	–	–	–
30 – 34	3	0.5	3	0.5
35 – 39	2	0.4	8	1.7
40 – 44	12	2.9	17	4.4
45 – 49	21	5.9	32	9.3
50 – 54	35	10.8	41	13.9
55 – 59	44	17.3	61	26.5
60 – 64	42	19.9	41	22.7
65 – 69	35	22.9	46	33.1
70 – 74	32	28.6	23	24.2
75 <=	28	22.3	18	15.7
Total	254	2.9	290	3.5

(Incidence: per 100,000 Population)

(* C. R. : Crude incidence rate)

STOMACH

ICD No. 151



Incidence		Male	Female
Crude Rate	:	0.8	0.5
Age Adjusted Rate (World)	:	0.9	0.6
Age Adjusted Rate (Developing)	:	0.8	0.5
Lifetime Risk	:	0.10%	0.08%
Median Age (Years)	:	52.0	56.0

Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C.R.*
Male	57	0.7	63	0.8	40	0.5
Female	29	0.4	17	0.3	23	0.3

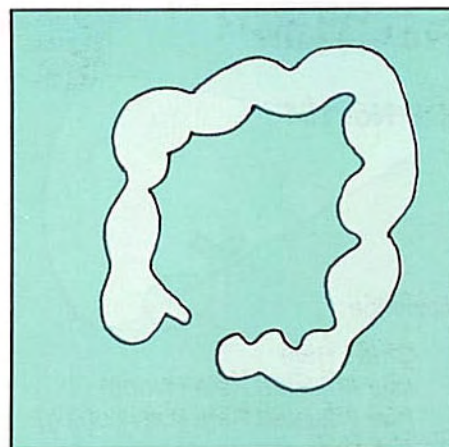
Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	–	–	–	–
5 – 9	–	–	–	–
10 – 14	1	0.1	–	–
15 – 19	–	–	–	–
20 – 24	–	–	–	–
25 – 29	7	1.0	–	–
30 – 34	1	0.2	–	–
35 – 39	7	1.4	1	0.2
40 – 44	5	1.2	4	1.0
45 – 49	7	2.0	4	1.2
50 – 54	11	3.4	6	2.1
55 – 59	8	3.1	12	5.2
60 – 64	6	2.8	5	2.8
65 – 69	7	4.6	4	2.9
70 – 74	4	3.6	2	2.1
75 <=	2	1.6	1	0.9
Total	66	0.8	39	0.5

(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

COLON

ICD No. 153



Incidence		Male	Female
Crude Rate	:	0.5	0.3
Age Adjusted Rate (World)	:	0.5	0.4
Age Adjusted Rate (Developing)	:	0.4	0.3
Lifetime Risk	:	0.05%	0.05%
Median Age (Years)	:	53.0	55.0

Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C.R
Male	27	0.3	29	0.4	23	0.3
Female	21	0.3	14	0.2	12	0.1

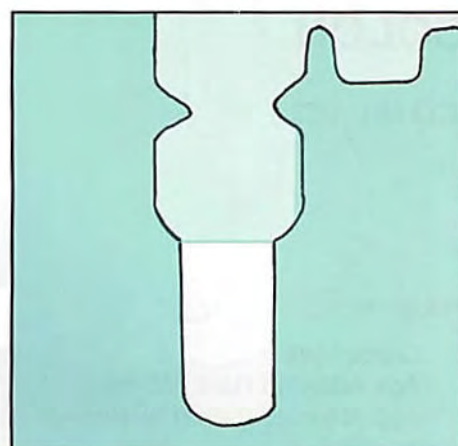
Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	–	–	–	–
5 – 9	–	–	–	–
10 – 14	2	0.2	–	–
15 – 19	–	–	–	–
20 – 24	–	–	–	–
25 – 29	2	0.3	2	0.3
30 – 34	1	0.2	–	–
35 – 39	2	0.4	1	0.2
40 – 44	6	1.5	3	0.8
45 – 49	3	0.8	–	–
50 – 54	4	1.2	2	0.7
55 – 59	5	2.0	9	3.9
60 – 64	4	1.9	4	2.2
65 – 69	4	2.6	4	2.9
70 – 74	5	4.5	–	–
75 <=	1	0.8	–	–
Total	39	0.5	25	0.3

Incidence: per 100,000 Population)

(* C.R. : Crude incidence rate)

RECTUM

ICD No. 154



Incidence	Male	Female
Crude Rate	: 0.7	0.6
Age Adjusted Rate (World)	: 0.8	0.8
Age Adjusted Rate (Developing)	: 0.7	0.7
Lifetime Risk	: 0.08%	0.10%
Median Age (Years)	: 59.0	55.0

Statistics (1985 – 87)

Year	No.	1985	C. R.*	No.	1986	C. R.*	No.	1987	C.R.*
Male	40		0.5	39		0.5	34		0.4
Female	31		0.4	22		0.3	34		0.4

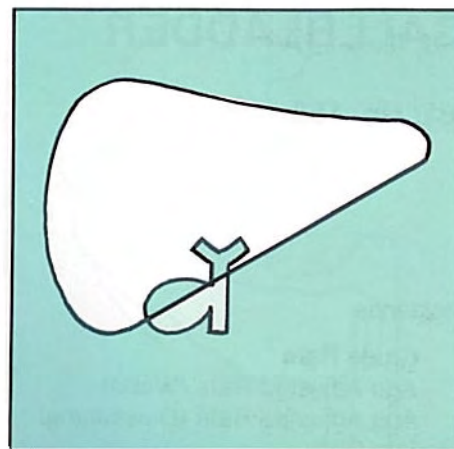
Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	–	–	–	–
5 – 9	–	–	–	–
10 – 14	–	–	–	–
15 – 19	1	0.1	–	–
20 – 24	1	0.1	–	–
25 – 29	2	0.3	2	0.3
30 – 34	3	0.5	5	0.8
35 – 39	7	1.4	2	0.4
40 – 44	6	1.5	2	0.5
45 – 49	1	0.3	5	1.4
50 – 54	6	1.8	8	2.7
55 – 59	5	2.0	10	4.3
60 – 64	6	2.8	7	3.9
65 – 69	8	5.5	7	5.0
70 – 74	5	4.5	2	2.1
75 <=	9	7.3	4	3.5
Total	60	0.7	54	0.6

(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

LIVER

ICD No. 155



Incidence	:	Male	Female
Crude Rate	:	0.3	0.2
Age Adjusted Rate (World)	:	0.4	0.2
Age Adjusted Rate (Developing)	:	0.3	0.2
Lifetime Risk	:	0.04%	0.02%
Median Age (Years)	:	55.5	45.0

Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C. R.*
Male	31	0.4	24	0.3	31	0.4
Female	16	0.2	4	0.1	18	0.2

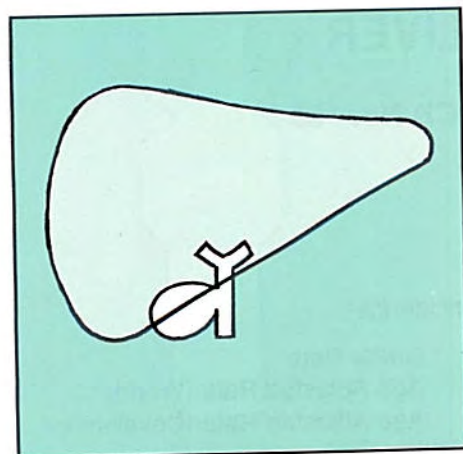
Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	1	0.1	2	0.2
5 – 9	–	–	1	0.1
10 – 14	–	–	–	–
15 – 19	–	–	1	0.1
20 – 24	–	–	–	–
25 – 29	1	0.1	–	–
30 – 34	2	0.3	1	0.2
35 – 39	3	0.6	1	0.2
40 – 44	2	0.5	1	0.3
45 – 49	4	1.1	3	0.9
50 – 54	1	0.3	1	0.3
55 – 59	2	0.8	–	–
60 – 64	6	2.8	2	1.1
65 – 69	3	2.0	1	0.7
70 – 74	3	2.7	1	1.1
75 <=	2	1.6	–	–
Total	30	0.3	15	0.2

(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

GALLBLADDER

ICD No. 156



Incidence	Male	Female
Crude Rate	0.1	0.1
Age Adjusted Rate (World)	0.1	0.1
Age Adjusted Rate (Developing)	0.1	0.1
Lifetime Risk	0.01%	0.01%
Median Age (Years)	55.0	36.0

Statistics (1985 - 87)

Year	No.	1985 C. R.*	No.	1986 C. R.*	No.	1987 C.R.
Male	6	0.1	3	0.0	5	0.1
Female	6	0.1	6	0.1	6	0.1

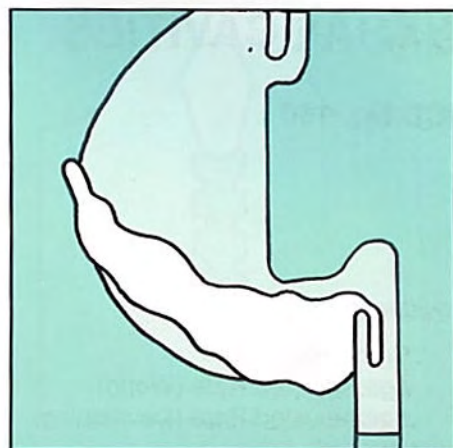
Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 - 4	-	-	-	-
5 - 9	-	-	-	-
10 - 14	-	-	-	-
15 - 19	-	-	-	-
20 - 24	-	-	-	-
25 - 29	-	-	-	-
30 - 34	1	0.2	3	0.6
35 - 39	-	-	-	-
40 - 44	-	-	-	-
45 - 49	-	-	-	-
50 - 54	1	0.3	1	0.3
55 - 59	1	0.4	-	-
60 - 64	2	0.9	-	-
65 - 69	-	-	1	0.7
70 - 74	-	-	-	-
75 <=	5	0.1	5	0.1
Total				

(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

PANCREAS

ICD No. 157



Incidence	:	Male	Female
Crude Rate	:	0.3	0.2
Age Adjusted Rate (World)	:	0.3	0.2
Age Adjusted Rate (Developing)	:	0.3	0.2
Lifetime Risk	:	0.04%	0.03%
Median Age (Years)	:	55.0	66.0

Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C.R.*
Male	12	0.1	11	0.1	8	0.1
Female	8	0.1	7	0.1	10	0.1

Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	–	–	–	–
5 – 9	–	–	–	–
10 – 14	–	–	–	–
15 – 19	–	–	–	–
20 – 24	–	–	–	–
25 – 29	–	–	–	–
30 – 34	–	–	–	–
35 – 39	1	0.2	–	–
40 – 44	5	1.2	2	0.5
45 – 49	2	0.6	2	0.6
50 – 54	3	0.9	–	–
55 – 59	7	2.8	3	1.3
60 – 64	3	1.4	4	2.2
65 – 69	2	1.3	3	2.2
70 – 74	1	0.9	1	1.1
75 <=	–	–	–	–
Total	24	0.3	15	0.2

Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

NASAL CAVITIES

ICD No. 160



Incidence		Male	Female
Crude Rate	:	0.5	0.3
Age Adjusted Rate (World)	:	0.6	0.4
Age Adjusted Rate (Developing)	:	0.5	0.3
Lifetime Risk	:	0.06%	0.04%
Median Age (Years)	:	61.0	60.0

Statistics (1985 – 87)

Year	No.	1985 C. R.*	No.	1986 C. R.*	No.	1987 C.R.*
Male	24	0.3	25	0.3	18	0.2
Female	12	0.2	19	0.2	23	0.3

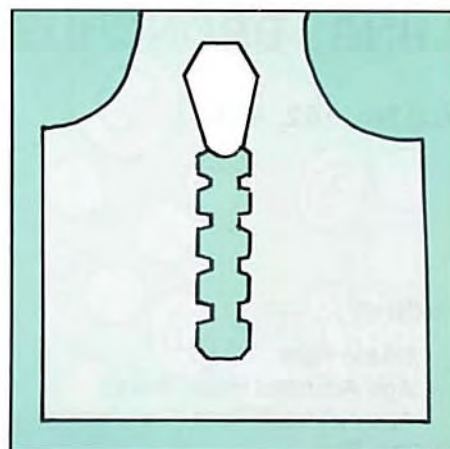
Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	–	–	–	–
5 – 9	–	–	–	–
10 – 14	2	0.2	–	–
15 – 19	1	0.1	–	–
20 – 24	1	0.1	–	–
25 – 29	–	–	1	0.1
30 – 34	1	0.2	4	0.6
35 – 39	–	–	2	0.4
40 – 44	–	–	2	0.5
45 – 49	1	0.3	1	0.3
50 – 54	7	2.2	1	0.3
55 – 59	7	2.8	–	–
60 – 64	10	4.7	5	2.8
65 – 69	2	1.3	3	2.2
70 – 74	10	8.9	4	4.2
75 <=	4	3.3	1	0.9
Total	46	0.5	24	0.3

(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

LARYNX

ICD No. 161



Incidence		Male	Female
Crude Rate	:	1.9	0.3
Age Adjusted Rate (World)	:	2.1	0.4
Age Adjusted Rate (Developing)	:	1.8	0.3
Lifetime Risk	:	0.28%	0.04%
Median Age (Years)	:	60.0	56.0

Statistics (1985 – 87)

Year	No.	1985	C. R.*	No.	1986	C. R.*	No.	1987	C.R.*
Male	104		1.3	126		1.5	133		1.6
Female	20		0.3	20		0.3	17		0.2

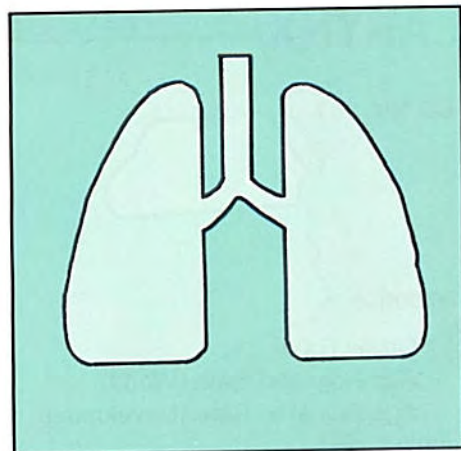
Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	–	–	–	–
5 – 9	–	–	–	–
10 – 14	–	–	–	–
15 – 19	1	0.1	1	0.1
20 – 24	1	0.1	2	0.2
25 – 29	–	–	–	–
30 – 34	1	0.2	–	–
35 – 39	1	0.2	1	0.2
40 – 44	8	1.9	–	–
45 – 49	11	3.1	4	1.2
50 – 54	30	9.2	3	1.0
55 – 59	21	8.3	6	2.6
60 – 64	25	11.8	3	1.7
65 – 69	34	22.2	1	0.7
70 – 74	21	18.8	2	2.1
75 <=	8	6.5	4	3.5
Total	162	1.9	27	0.3

(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

LUNG, BRONCHUS AND PLEURA

ICD No. 162, 163



Incidence	Male	Female
Crude Rate	2.9	0.6
Age Adjusted Rate (World)	3.3	0.8
Age Adjusted Rate (Developing)	2.8	0.7
Lifetime Risk	0.45%	0.10%
Median Age (Years)	60.0	58.0

Statistics (1985 - 87)

Year	1985	1986	1987
	No.	No.	No.
Male	165	175	185
Female	29	41	43
	C. R.*	C. R.*	C.R.*
Male	2.0	2.1	2.2
Female	0.4	0.5	0.5

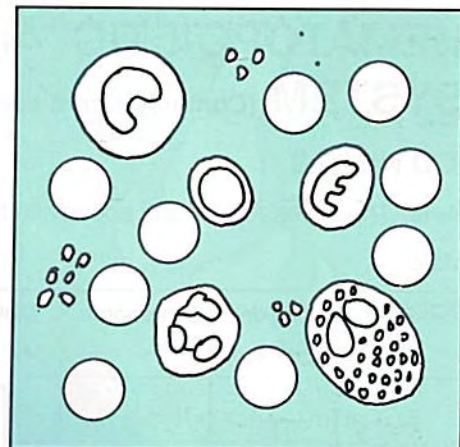
Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 - 4	—	—	—	—
5 - 9	—	—	—	—
10 - 14	1	0.1	—	—
15 - 19	—	—	—	—
20 - 24	1	0.1	1	0.1
25 - 29	—	—	—	—
30 - 34	7	1.1	2	0.3
35 - 39	3	0.6	4	0.8
40 - 44	16	3.9	5	1.3
45 - 49	26	7.3	2	0.6
50 - 54	35	10.8	6	2.0
55 - 59	32	12.6	8	3.5
60 - 64	67	31.8	10	5.5
65 - 69	35	22.9	8	5.8
70 - 74	23	20.5	3	3.2
75 <=	7	5.5	3	2.6
Total	253	2.9	52	0.6

(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

HEMATOPOIETIC AND RETICULOENDOTHELIAL SYSTEM

ICD No. 169



Incidence	Male	Female
Crude Rate	3.9	2.8
Age Adjusted Rate (World)	4.0	3.3
Age Adjusted Rate (Developing)	3.8	2.9
Lifetime Risk	0.33%	0.31%
Median Age (Years)	37.0	40.0

Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C.R.*
Male	196	2.4	258	3.1	337	4.0
Female	117	1.5	140	1.8	197	2.5

Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	28	2.6	13	1.3
5 – 9	26	2.7	15	1.6
10 – 14	32	3.2	21	2.2
15 – 19	28	3.0	13	1.4
20 – 24	21	2.4	7	0.8
25 – 29	11	1.5	16	2.2
30 – 34	16	2.5	9	1.4
35 – 39	19	3.9	19	4.0
40 – 44	21	5.1	14	3.6
45 – 49	24	6.8	16	4.6
50 – 54	22	6.8	15	5.1
55 – 59	18	7.1	15	6.5
60 – 64	18	8.5	23	12.7
65 – 69	17	11.1	21	15.1
70 – 74	17	15.2	10	10.5
75 <=	19	15.4	7	6.1
Total	337	3.9	234	2.8

(Incidence: per 100,000 Population)

(*C.R. : Crude incidence rate)

HEMATOPOIETIC AND RETICULOENDOTHELIAL SYSTEM (Continued from page 17)

ICD No. 169

Note: The cases refer to the above site have been separated to Leukaemia and other sites using ICD 9 convention

Male

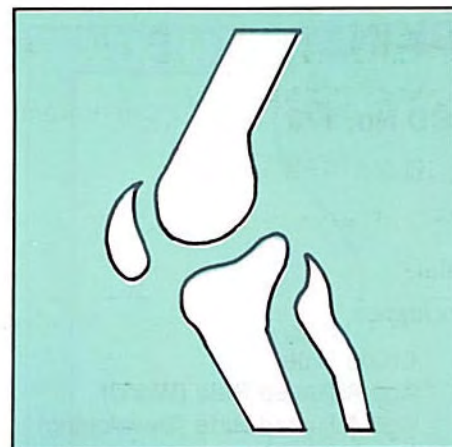
Age	Hodgkin's Disease	Lymphoma	Multiple Myeloma	Lymphoid	Leukaemia	Myeloid	Leukaemia	Other Leukaemia	Total (%)
				Acute	Chronic	Acute	Chronic		
... < 5		1		25		1		1	28 (8.3)
5 - 9	1	1		20		3		1	26 (7.7)
10 - 14		10		17	1	2	1	1	32 (9.5)
15 - 19	3	10		11		2		2	28 (8.3)
20 - 24		7		6		3	1	4	21 (6.2)
25 - 29	2			5		1	1	2	11 (3.3)
30 - 34		8		2		4	2		16 (4.7)
35 - 39	1	12	1				3	2	19 (5.7)
40 - 44	1	8		2		3	3	4	21 (6.2)
45 - 49	4	7	4	1	1	3	3	1	24 (7.1)
50 - 54	3	8	3	1		2	2	3	22 (6.5)
55 - 59	1	10	3				1	3	18 (5.3)
60 - 64	3	6	3	2	1	1		2	18 (5.3)
65 - 69	1	9	4	1		1	1		17 (5.1)
70 - 74	3	7	2	1	1	1	1	1	17 (5.1)
75 < ...	1	6	2		3	4	2	1	19 (5.7)
Total	24	110	22	94	7	31	21	28	337 (100.0)
%	(7.1)	(32.6)	(6.6)	(27.9)	(2.1)	(9.2)	(6.2)	(8.3)	(100.0)

Female

Age	Hodgkin's Disease	Lymphoma	Multiple Myeloma	Lymphoid	Leukaemia	Myeloid	Leukaemia	Other Leukaemia	Total (%)
				Acute	Chronic	Acute	Chronic		
... < 5				12		1			13 (5.6)
5 - 9	1			11		3			15 (6.4)
10 - 14		2		12		7			21 (9.0)
15 - 19	1	1		7		3		1	13 (5.5)
20 - 24	1			2		2	2		7 (3.0)
25 - 29		8		3		4	1		16 (6.8)
30 - 34	1			1		4	2	1	9 (3.9)
35 - 39	2	6		2		4	3	2	19 (8.1)
40 - 44	2	6				1	4	1	14 (6.0)
45 - 49		5	1			6		4	16 (6.8)
50 - 54	2	7	1	1		1	2	1	15 (6.4)
55 - 59		3	3	4		1	1	3	15 (6.4)
60 - 64	1	8	6	1		3	2	2	23 (9.8)
65 - 69	4	5	5	2		4	1		21 (9.0)
70 - 74		1	3	1	2	1	1	1	10 (4.3)
75 < ...		3	1	2	1				7 (3.0)
Total	15	55	20	61	3	45	19	16	234 (100.0)
%	(6.4)	(23.5)	(8.6)	(26.1)	(1.3)	(19.2)	(8.1)	(6.8)	(100.0)

BONES JOINTS AND ARTICULAR CARTILAGES

ICD No. 170



Incidence		Male	Female
Crude Rate	:	0.7	0.5
Age Adjusted Rate (World)	:	0.7	0.5
Age Adjusted Rate (Developing)	:	0.7	0.5
Lifetime Risk	:	0.05%	0.04%
Median Age (Years)	:	33.0	20.0

Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C. R.*
Male	48	0.6	61	0.7	57	0.7
Female	43	0.6	30	0.4	36	0.4

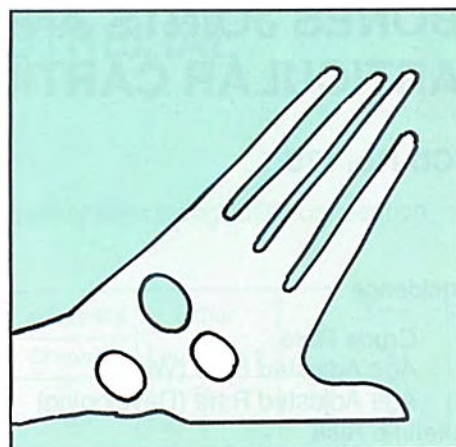
Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	2	0.2	1	0.1
5 – 9	4	0.4	3	0.3
10 – 14	6	0.6	12	1.3
15 – 19	6	0.6	5	0.6
20 – 24	4	0.5	3	0.3
25 – 29	7	1.0	1	0.1
30 – 34	2	0.3	2	0.3
35 – 39	–	–	3	0.6
40 – 44	3	0.7	1	0.3
45 – 49	7	2.0	–	–
50 – 54	5	1.5	2	0.7
55 – 59	3	1.2	7	3.0
60 – 64	4	1.9	–	–
65 – 69	–	–	1	0.7
70 – 74	4	3.6	1	1.0
75 <=	4	3.3	1	0.9
Total	61	0.7	43	0.5

(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

SKIN

ICD No. 173



Incidence		Male	Female
Crude Rate	:	0.8	0.3
Age Adjusted Rate (World)	:	0.9	0.5
Age Adjusted Rate (Developing)	:	0.8	0.4
Lifetime Risk	:	0.08%	0.03%
Median Age (Years)	:	55.0	52.0

Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C. R.*
Male	62	0.8	62	0.8	58	0.7
Female	32	0.4	27	0.3	24	0.3

Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	–	–	–	–
5 – 9	–	–	–	–
10 – 14	1	0.1	–	–
15 – 19	1	0.1	–	–
20 – 24	–	–	–	–
25 – 29	2	0.3	3	0.4
30 – 34	5	0.8	–	–
35 – 39	3	0.6	5	1.1
40 – 44	8	1.9	2	0.5
45 – 49	7	2.0	2	0.6
50 – 54	7	2.2	5	1.7
55 – 59	6	2.4	2	0.9
60 – 64	6	2.8	1	0.6
65 – 69	4	2.6	1	0.7
70 – 74	7	6.3	3	3.2
75 <=	12	9.8	5	4.3
Total	69	0.8	29	0.3

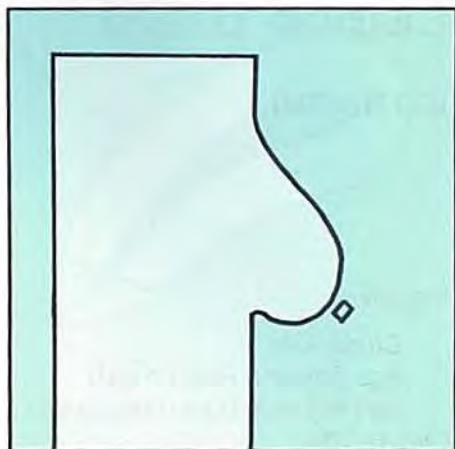
(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

BREAST

ICD No. 174 : F, 175 : M

Incidence		Male	Female
Crude Rate	:	0.2	7.7
Age Adjusted Rate (World)	:	0.2	9.3
Age Adjusted Rate (Developing)	:	0.2	8.1
Lifetime Risk	:	0.02%	0.98%
Median Age (Years)	:	61.0	47.5



Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C. R.*
Male	8	0.1	9	0.1	4	0.0
Female	531	6.8	563	7.1	538	6.7

Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	–	–	–	–
5 – 9	–	–	1	0.1
10 – 14	–	–	–	–
15 – 19	–	–	–	–
20 – 24	–	–	2	0.2
25 – 29	–	–	11	1.5
30 – 34	–	–	45	7.1
35 – 39	–	–	82	17.2
40 – 44	1	0.2	103	26.6
45 – 49	–	–	122	35.4
50 – 54	1	0.3	77	26.0
55 – 59	3	1.2	62	27.0
60 – 64	3	1.4	49	27.1
65 – 69	3	2.0	39	28.1
70 – 74	2	1.8	22	23.2
75 <=	1	0.8	25	21.9
Total	14	0.2	640	7.7

(Incidence: per 100,000 Population)

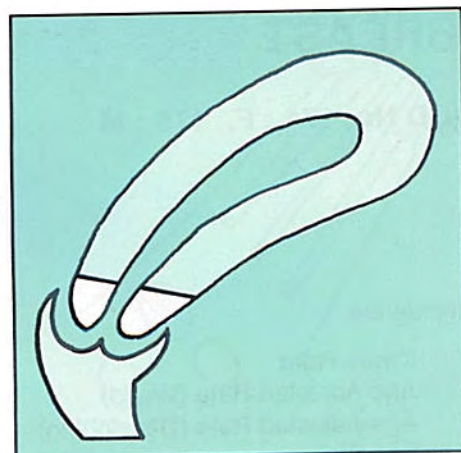
(*C. R. : Crude incidence rate)

CERVIX UTERI

ICD No. 180

Incidence

	Female
Crude Rate	: 6.6
Age Adjusted Rate (World)	: 8.6
Age Adjusted Rate (Developing)	: 7.1
Lifetime Risk	: 0.96%
Median Age (Years)	: 55.0



Statistics (1985 - 87)

Year	No.	1985 C. R.*	No.	1986 C. R.*	No.	1987 C. R.*
Female	474	6.1	495	6.3	510	6.4

Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 - 4			1	0.1
5 - 9			-	-
10 - 14			-	-
15 - 19			-	-
20 - 24			3	0.3
25 - 29			5	0.7
30 - 34			16	2.5
35 - 39			40	8.4
40 - 44			54	14.0
45 - 49			69	20.1
50 - 54			84	28.4
55 - 59			79	34.3
60 - 64			58	32.0
65 - 69			72	51.8
70 - 74			39	41.1
75 <=			27	23.5
Total			547	6.6

(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

UTERUS AND CORPUS UTERI

ICD No. 179, 182



Incidence		Female
Crude Rate	:	0.8
Age Adjusted Rate (World)	:	1.0
Age Adjusted Rate (Developing)	:	0.9
Lifetime Risk	:	0.11%
Median Age (Years)	:	51.0

Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C. R.*
Female	44	0.6	37	0.5	47	0.6

Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4			1	0.1
5 – 9			–	–
10 – 14			–	–
15 – 19			2	0.2
20 – 24			3	0.3
25 – 29			5	0.7
30 – 34			1	0.2
35 – 39			6	1.3
40 – 44			6	1.6
45 – 49			8	2.3
50 – 54			11	3.7
55 – 59			11	4.8
60 – 64			7	3.9
65 – 69			5	3.6
70 – 74			2	2.1
75 <=			–	–
Total			68	0.8

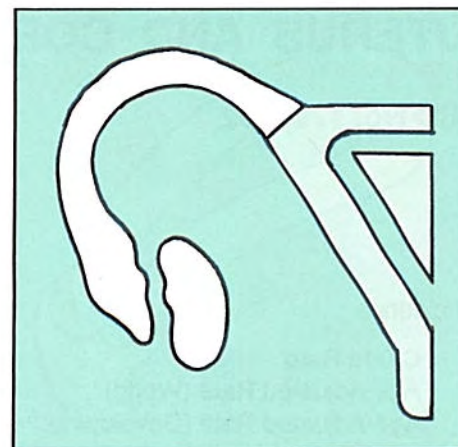
(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

OVERY, FALLOPIAN TUBE AND BROAD LIGAMENT

ICD No. 183

Incidence		Female
Crude Rate	:	2.4
Age Adjusted Rate (World)	:	2.9
Age Adjusted Rate (Developing)	:	2.5
Lifetime Risk	:	0.32%
Median Age (Years)	:	50.0



Statistics (1985 – 87)

Year	No.	1985 C. R.*	No.	1986 C. R.*	No.	1987 C. R.*
Female	148	1.9	154	1.9	166	2.1

Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4			–	–
5 – 9			–	–
10 – 14			6	0.6
15 – 19			2	0.2
20 – 24			6	0.7
25 – 29			9	1.2
30 – 34			17	2.7
35 – 39			19	4.0
40 – 44			14	3.6
45 – 49			27	7.8
50 – 54			31	10.5
55 – 59			31	13.5
60 – 64			19	10.5
65 – 69			12	8.6
70 – 74			3	3.2
75 <=			5	4.3
Total			201	2.4

(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

OTHER FEMALE GENITAL ORGANS

ICD No. 184

Incidence

	Female
Crude Rate	: 0.4
Age Adjusted Rate (World)	: 0.6
Age Adjusted Rate (Developing)	: 0.4
Lifetime Risk	: 0.05%
Median Age (Years)	: 60.0



Statistics (1985 – 87)

Year	No.	1985 C. R.*	No.	1986 C. R.*	No.	1987 C. R.*
Female	33	0.4	26	0.3	32	0.4

Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4			–	–
5 – 9			–	–
10 – 14			–	–
15 – 19			1	0.1
20 – 24			–	–
25 – 29			–	–
30 – 34			1	0.2
35 – 39			3	0.6
40 – 44			3	0.8
45 – 49			2	0.6
50 – 54			2	0.7
55 – 59			2	0.9
60 – 64			6	3.3
65 – 69			3	2.2
70 – 74			4	4.2
75 <=			6	5.2
Total			33	0.4

(Incidence: per 100,000 Population)

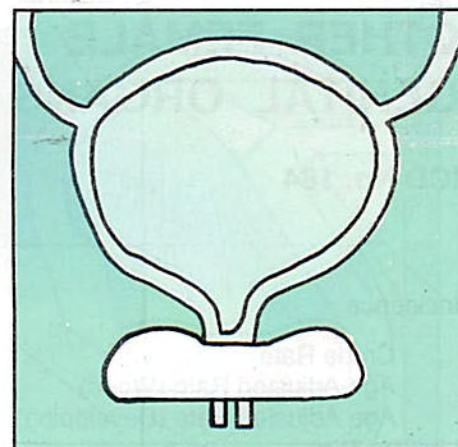
(*C. R. : Crude incidence rate)

PROSTATE GLAND

ICD No. 185

Incidence

	Male
Crude Rate	: 0.6
Age Adjusted Rate (World)	: 0.7
Age Adjusted Rate (Developing)	: 0.6
Lifetime Risk	: 0.08%
Median Age (Years)	: 67.0



Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C. R.*
Male	44	0.5	36	0.4	45	0.5

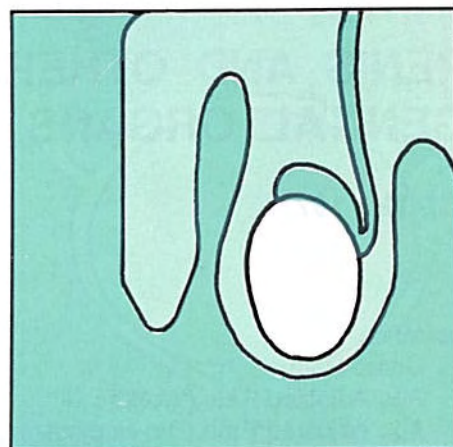
Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	–	–		
5 – 9	–	–		
10 – 14	–	–		
15 – 19	1	0.1		
20 – 24	–	–		
25 – 29	–	–		
30 – 34	–	–		
35 – 39	–	–		
40 – 44	1	0.2		
45 – 49	–	–		
50 – 54	–	–		
55 – 59	9	3.5		
60 – 64	5	2.4		
65 – 69	16	10.5		
70 – 74	11	9.8		
75 <=	8	6.5		
Total	51	0.6		

(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

TESTIS

ICD No. 186



Incidence		Male
Crude Rate	:	0.2
Age Adjusted Rate (World)	:	0.3
Age Adjusted Rate (Developing)	:	0.2
Lifetime Risk	:	0.02%
Median Age (Years)	:	38.0

Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C. R.*
Male	21	0.3	18	0.2	28	0.3

Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	–	–		
5 – 9	–	–		
10 – 14	–	–		
15 – 19	–	–		
20 – 24	2	0.2		
25 – 29	4	0.5		
30 – 34	–	–		
35 – 39	8	1.7		
40 – 44	2	0.5		
45 – 49	2	0.6		
50 – 54	1	0.3		
55 – 59	–	–		
60 – 64	1	0.5		
65 – 69	1	0.7		
70 – 74	–	–		
75 <=	–	–		
Total	21	0.2		

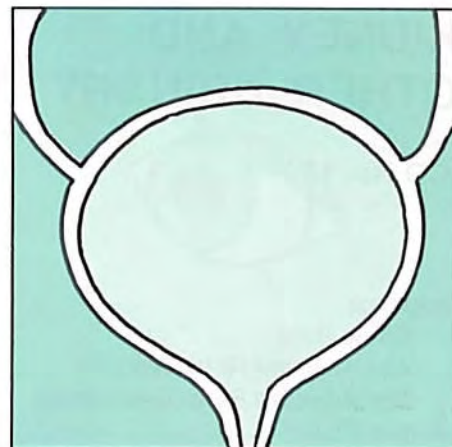
(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

URINARY BLADDER

ICD No. 188

Incidence		Male	Female
Crude Rate	:	0.6	0.2
Age Adjusted Rate (World)	:	0.7	0.3
Age Adjusted Rate (Developing)	:	0.6	0.2
Lifetime Risk	:	0.07%	0.03%
Median Age (Years)	:	62.0	65.0



Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C. R.*
Male	50	0.6	38	0.5	51	0.6
Female	3	0.0	13	0.2	13	0.2

Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	1	0.1	–	–
5 – 9	–	–	–	–
10 – 14	–	–	–	–
15 – 19	–	–	–	–
20 – 24	–	–	–	–
25 – 29	–	–	–	–
30 – 34	1	0.2	–	–
35 – 39	1	0.2	–	–
40 – 44	1	0.2	–	–
45 – 49	6	1.7	4	1.2
50 – 54	7	2.2	1	0.3
55 – 59	4	1.6	3	1.3
60 – 64	8	3.8	1	0.6
65 – 69	8	5.2	4	2.9
70 – 74	7	6.3	2	2.1
75 <=	7	5.7	4	3.5
Total	51	0.6	19	0.2

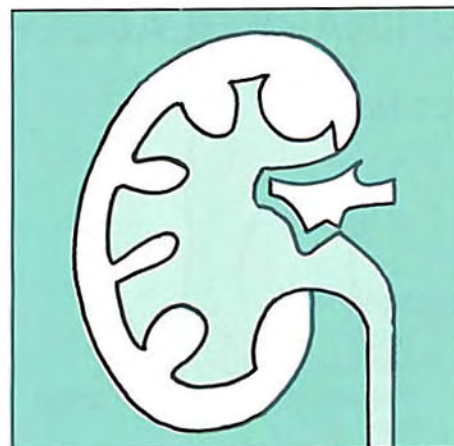
(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

KIDNEY AND OTHER URINARY ORGANS

ICD No. 189

Incidence		Male	Female
Crude Rate	:	0.3	0.2
Age Adjusted Rate (World)	:	0.3	0.3
Age Adjusted Rate (Developing)	:	0.3	0.2
Lifetime Risk	:	0.04%	0.03%
Median Age (Years)	:	50.0	57.0



Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C. R.*
Male	17	0.2	31	0.4	25	0.3
Female	13	0.2	15	0.2	21	0.3

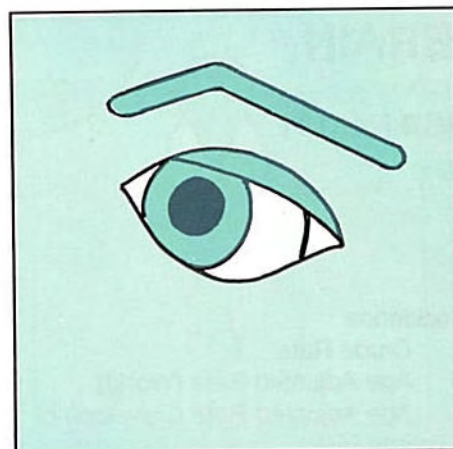
Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	2	0.2	3	0.3
5 – 9	1	0.1	–	–
10 – 14	–	–	–	–
15 – 19	–	–	–	–
20 – 24	–	–	–	–
25 – 29	1	0.1	–	–
30 – 34	2	0.3	–	–
35 – 39	1	0.2	–	–
40 – 44	2	0.5	1	0.3
45 – 49	4	1.1	2	0.6
50 – 54	4	1.2	2	0.7
55 – 59	6	2.4	2	0.9
60 – 64	3	1.4	4	2.2
65 – 69	–	–	2	1.4
70 – 74	1	0.9	1	1.1
75 <=	–	–	1	0.9
Total	27	0.3	18	0.2

(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

EYE AND LACRIMAL GLAND

ICD No. 190



Incidence		Male	Female
Crude Rate	:	0.1	0.1
Age Adjusted Rate (World)	:	0.1	0.1
Age Adjusted Rate (Developing)	:	0.1	0.1
Lifetime Risk	:	0.01%	0.01%
Median Age (Years)	:	4.0	3.0

Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C. R.*
Male	12	0.1	14	0.2	9	0.1
Female	9	0.1	9	0.1	9	0.1

Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	6	0.6	6	0.6
5 – 9	1	0.1	1	0.1
10 – 14	–	–	–	–
15 – 19	–	–	–	–
20 – 24	1	0.1	1	0.1
25 – 29	–	–	–	–
30 – 34	1	0.2	–	–
35 – 39	1	0.2	–	–
40 – 44	–	–	–	–
45 – 49	–	–	1	0.3
50 – 54	1	0.3	–	–
55 – 59	1	0.4	–	–
60 – 64	–	–	–	–
65 – 69	–	–	–	–
70 – 74	–	–	–	–
75 <=	–	–	–	–
Total	12	0.1	9	0.1

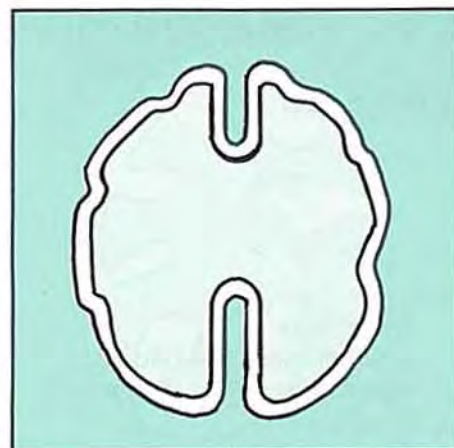
(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

BRAIN

ICD No. 191

Incidence	Male	Female
Crude Rate	0.7	0.3
Age Adjusted Rate (World)	0.7	0.3
Age Adjusted Rate (Developing)	0.7	0.3
Lifetime Risk	0.05%	0.03%
Median Age (Years)	32.0	26.5



Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C. R.*
Male	29	0.4	88	0.3	31	0.4
Female	22	0.3	18	0.2	36	0.4

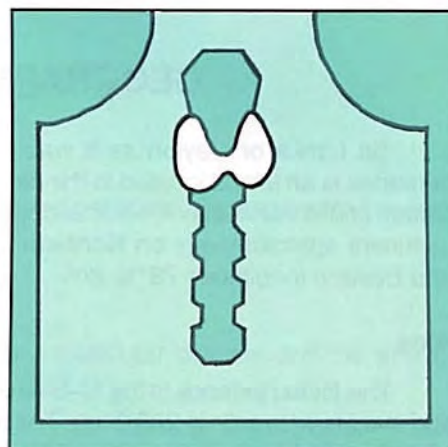
Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	4	0.4	2	0.2
5 – 9	5	0.5	4	0.4
10 – 14	7	0.7	3	0.3
15 – 19	2	0.2	–	–
20 – 24	1	0.1	3	0.3
25 – 29	6	0.8	2	0.3
30 – 34	9	1.4	–	–
35 – 39	7	1.5	2	0.4
40 – 44	6	1.4	2	0.5
45 – 49	2	0.6	4	1.2
50 – 54	5	1.5	3	1.0
55 – 59	2	0.8	–	–
60 – 64	2	0.9	1	0.6
65 – 69	–	–	–	–
70 – 74	–	–	–	–
75 <=	–	–	–	–
Total	58	0.7	26	0.3

(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

THYROID GLAND

ICD No. 193



Incidence		Male	Female
Crude Rate	:	0.7	0.2
Age Adjusted Rate (World)	:	0.8	2.3
Age Adjusted Rate (Developing)	:	0.7	2.0
Lifetime Risk	:	0.08%	0.24%
Median Age (Years)	:	51.0	45.0

Statistics (1985 – 87)

Year	1985		1986		1987	
	No.	C. R.*	No.	C. R.*	No.	C. R.*
Male	40	0.5	33	0.4	47	0.6
Female	103	1.3	108	1.4	112	1.4

Age Group	Male		Female	
	Number	Incidence	Number	Incidence
0 – 4	–	–	–	–
5 – 9	–	–	1	0.1
10 – 14	–	–	1	0.1
15 – 19	–	–	6	0.7
20 – 24	–	–	9	1.0
25 – 29	10	1.4	13	1.8
30 – 34	5	0.8	17	2.7
35 – 39	2	0.4	19	4.0
40 – 44	7	1.7	15	3.9
45 – 49	4	1.1	17	4.9
50 – 54	8	2.5	9	3.0
55 – 59	4	1.6	17	7.4
60 – 64	4	1.9	11	6.1
65 – 69	9	5.9	16	11.5
70 – 74	2	1.8	8	8.4
75 <=	7	5.7	4	3.5
Total	62	0.7	163	2.0

(Incidence: per 100,000 Population)

(*C. R. : Crude incidence rate)

APPENDIX I

GEOGRAPHY & DEMOGRAPHY OF SRI LANKA

Sri Lanka or Ceylon as it was known for many centuries is an island located in the centre of the Indian Ocean and in the vicinity of southern tip of the Indian sub continent approximately on Northern latitudes 5° to 9° and Eastern longitudes 79° to 80°.

Area

The island extends in the N-S direction to 445 kms and maximum breadth is 225.3 km. The total land area is 65,610 km² which includes about 982 km² of inland waters. One fifth of the total land area of 6.56 million hectares is forest and forest reserves and about quarter of the land has already been used for agriculture purposes.



Climate

The climatic conditions of Sri Lanka is effected by its proximity to the equator and the monsoons. These conditions slightly differ from hill country to low country. The mean temperature ranges from 14°C to 24°C in hill country and from 26°C to 28°C in other parts. The hill country receives sufficient rain and rest of the island maintains tropical climate with less than 200cm of annual rainfall.

Population

According to the last census held in 1981, the reported population was 14.85 million and this comprise four major ethnic groups namely Sinhala, Tamil, Moor and Burgher by 74.5%, 18.1%, 7.1% and 0.3% respectively. The reported sex percentage in relation to female was 48.5% and the distribution of population among urban, rural and estate areas were 21.5%, 72.2% and 6.3% respectively. The estimated population for 1990 was approximately 16.99 million.

Economy

The country's economy has been liberalized since 1977 which resulted to expand the economic activities. Per capita income of Sri Lanka was for 1990 about 467 US \$. In formation of the GDP in 1990 Agriculture and Manufacturing sectors contributed 23.22% and 17.35% respectively while the economic growth rate was at 6.2%.

Vital Statistics

The Literacy Rate of Sri Lanka exceeds 88% and is an one of the best in the South Asia region. The last census in 1981 reported that life expectation at birth for males and females are 67.8 and 71.7 years respectively. The vital statistics in 1990 indicates that the Crude Birth and Death Rates are 20.0 and 5.8 per every 1,000 persons respectively. The Fertility Rate is about 85 per 1,000 females aged 15 – 49 years while the Population Growth Rate at 1.5% . The Infant Mortality Rate for the year was about 19.3 per 1,000 population.

APPENDIX II

STATISTICAL TERMINOLOGY

Incidence

The term incidence is defined by the ratio of number of patients developing a particular disease and the average population at risk for a specific time period in a given geographical area.

Mortality

The term mortality is defined by the ratio of number of deaths due to a particular disease and the average population for a specific time period in a given geographical region.

Standardization

The basic idea in use of standardization is that allowing the adjustment for discrepancies in age structures between the standard population and a special population.

Lifetime Risk

The lifetime risk is defined by the probability of developing a disease during the lifetime of a person living in a specific community.

The measure of lifetime risk included in this volume are subject to the assumption of life expectancy at birth of Sri Lanka population is 70 years.

Calculations

The methods of some important calculations included in this volume are as follows.

1. Crude Rate

is calculated by dividing the total number of cases encountered in the year by the estimated mid year population at risk.

2. Age-Specific Incidence Rate

is calculated by dividing the number of cases in each five year age-group by estimated mid year population at risk in the corresponding age group.

3. Standard Incidence Rate

The standardized incidence rate can be regarded as a weighted mean of age specific incidence of Sri Lanka population, using the percentage of each age intervals of the age structure of the standard population.

This report considered two standard populations namely World Standard Population and Population in Developing Countries in order to compare the cancer incidences of Sri Lanka with same in other parts of the world.

4. Estimate of Lifetime Risk (Cumulative Incidence Rate%)

The cumulative incidence rate is obtained by summing up the age-specific incidences in each five year age intervals ranged from 0 to 70 years. The cumulative rates % over the above range can be used as a good estimate for the lifetime risk of cancers.

Selection of the above age interval is due to the Sri Lanka's actuarial life expectancy which is close to 70 years in both males and females and beyond this interval detection of cancers in the extremely elder cases which are often found incidentally or after death and which are little relevance to the health of the people.

APPENDIX III
DISTRIBUTION OF CANCER BY AGE AND SEX
IN SRI LANKA POPULATION 1990

Males

Age Group	Population		New Cancer Cases	
	No. ('000)	%	No.	%
0 - 4	1,086	12.5	53	1.8
5 - 9	982	11.3	40	1.3
10 - 14	988	11.4	60	2.0
15 - 19	933	10.7	50	1.7
20 - 24	862	10.1	41	1.4
25 - 29	729	8.4	64	2.1
30 - 34	652	7.5	81	2.7
35 - 39	484	5.6	105	3.5
40 - 44	413	4.7	177	5.9
45 - 49	354	4.1	219	7.4
50 - 54	325	3.8	348	11.7
55 - 59	254	3.0	384	12.9
60 - 64	211	2.4	440	14.8
65 - 69	153	1.8	368	12.4
70 - 74	112	1.3	282	9.5
75 <=	123	1.4	267	8.9
Total	8,661	100.0	2,979	100.0

Females

Age Group	Population		New Cancer Cases	
	No. ('000)	%	No.	%
0 - 4	1,039	12.5	33	1.1
5 - 9	951	11.4	30	1.0
10 - 14	946	11.4	48	1.6
15 - 19	906	10.9	37	1.2
20 - 24	866	10.5	52	1.7
25 - 29	727	8.8	76	2.5
30 - 34	633	7.6	139	4.5
35 - 39	476	5.7	240	7.8
40 - 44	387	4.6	280	9.1
45 - 49	345	4.1	377	12.2
50 - 54	296	3.5	379	12.3
55 - 59	230	2.7	402	13.0
60 - 64	181	2.2	335	10.8
65 - 69	139	1.6	325	10.5
70 - 74	95	1.1	176	5.7
75 <=	115	1.4	155	5.0
Total	8,332	100.0	3,084	100.0

APPENDIX IV

GEOGRAPHICAL DISTRIBUTION OF CANCER INCIDENCE 1990

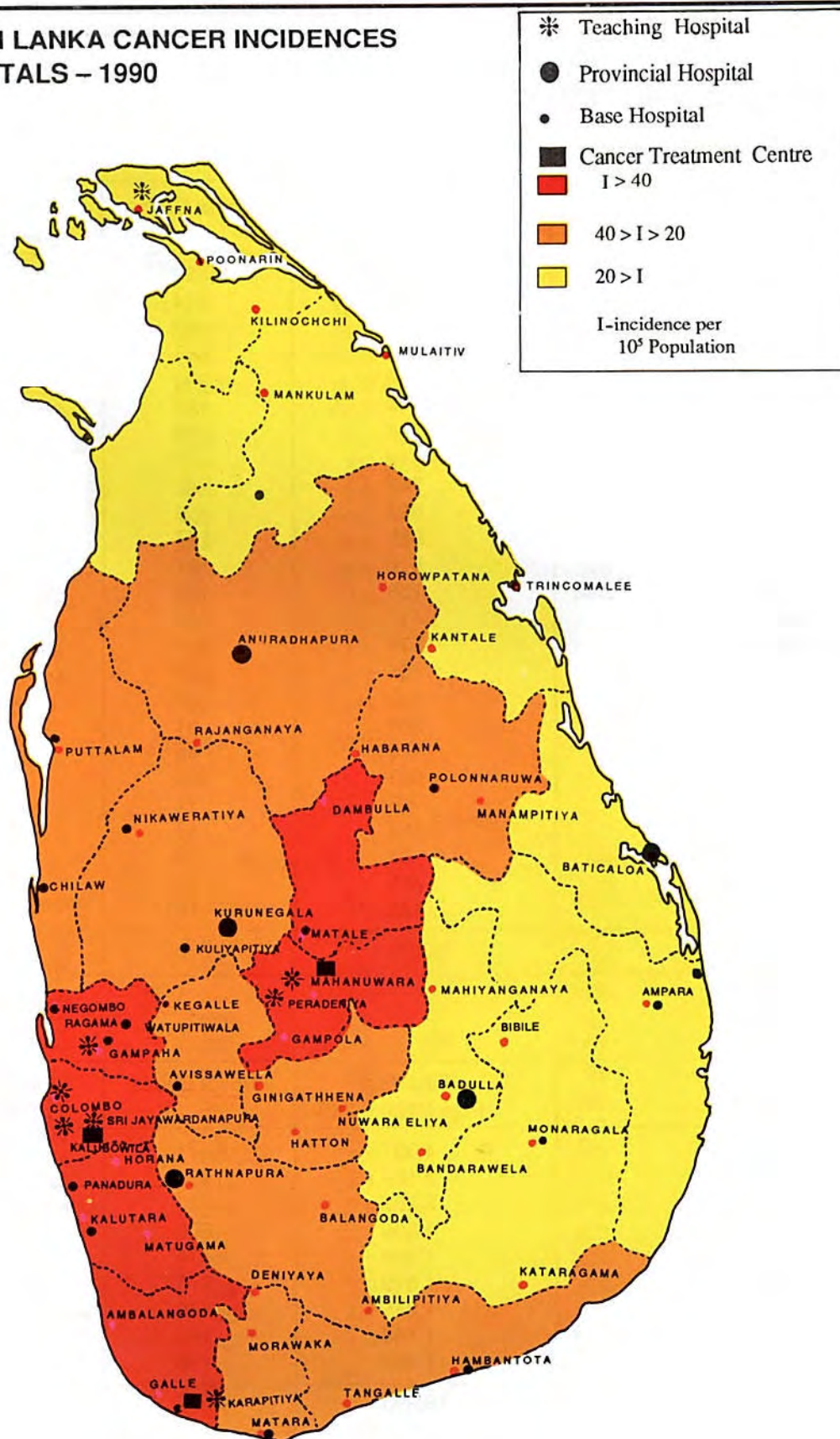
Geography by District

District	Mid Year Population ('000)	No. of Cases	Incidence Rate (10 ⁻⁵ population)
Colombo	1,935	1,393	72.0
Kandy	1,236	714	57.8
Galle	932	433	46.5
Gampaha	1,518	688	45.3
Kalutara	934	390	41.8
Matale	414	167	40.3
Matara	765	289	37.8
Polonnaruwa	314	115	36.6
Kegalle	743	241	32.4
Ratnapura	923	259	28.1
Puttalam	589	157	26.7
Hambantota	510	131	25.7
Anuradhapura	705	160	22.7
Kurunegala	1,410	317	22.5
Nuwara Eliya	530	113	21.3
Badulla	701	137	19.5
Batticaloa	409	69	16.9
Moneragala	344	51	14.8
Ampara	474	65	13.7
Jaffna	863	104	12.1
Kilinochchi	99	11	11.1
Vavuniya	114	12	10.5
Mullaitivu	91	9	9.9
Trincomalee	311	28	9.0
Mannar	129	10	7.8
Total	16,993	6,063	35.7

Geography by Province

Province	Mid Year Population ('000)	No. of Cases	Incidence Rate (10 ⁻⁵ population)
Western	4,387	2,471	56.3
Central	2,180	994	45.6
Southern	2,207	853	38.6
Sabaragamuwa	1,666	500	30.0
North Western	1,999	474	23.7
North Central	1,019	275	27.0
Uva	1,045	188	18.0
Eastern	1,194	162	13.6
Northern	1,296	146	11.6
Total	16,993	6,063	35.7

MAP OF SRI LANKA CANCER INCIDENCES AND HOSPITALS – 1990



APPENDIX V
LEADING CANCER SITES (1990)

Male

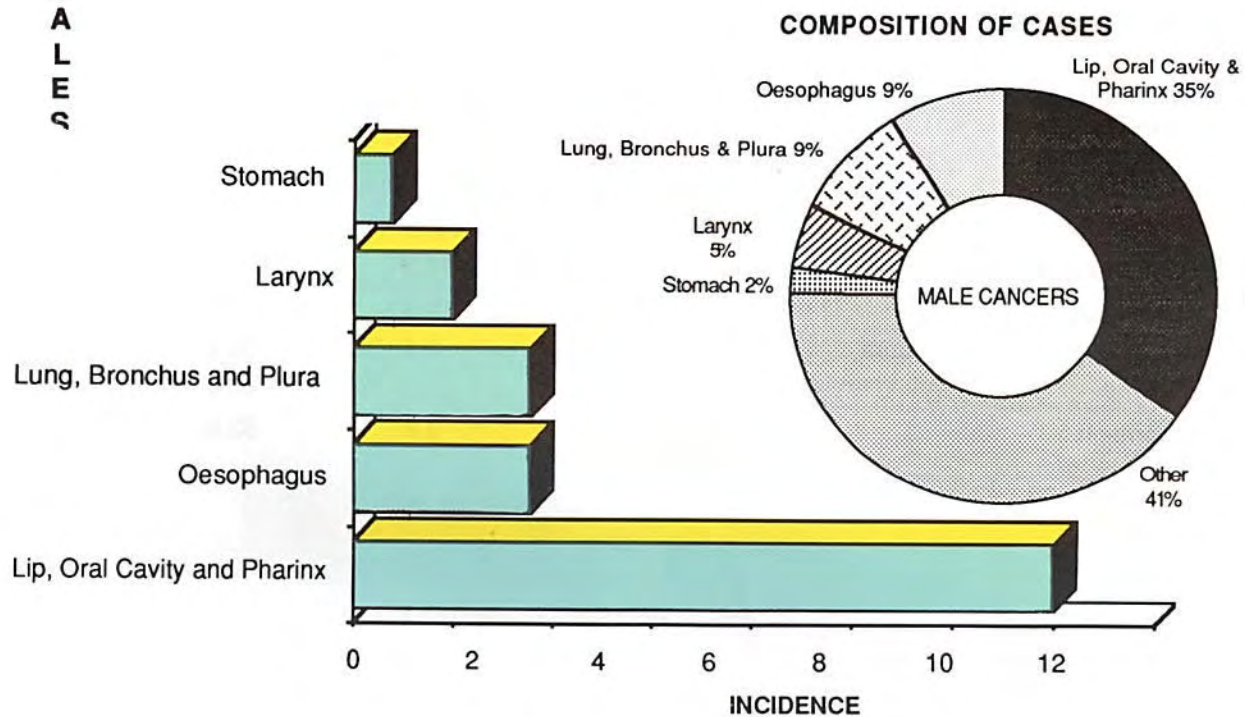
Site	Number (%)	Incidence Rate	Median Age	Lifetime Risk
Lip, Oral Cavity and Pharynx	1,028 (34.5)	11.9	60.0	1.63%
Oesophagus	254 (8.5)	2.9	60.0	0.40%
Lung, Bronchus and Pleura	253 (8.5)	2.9	60.0	0.45%
Larynx	162 (5.4)	1.9	60.0	0.28%
Stomach	66 (2.2)	0.8	52.0	0.10%

Female

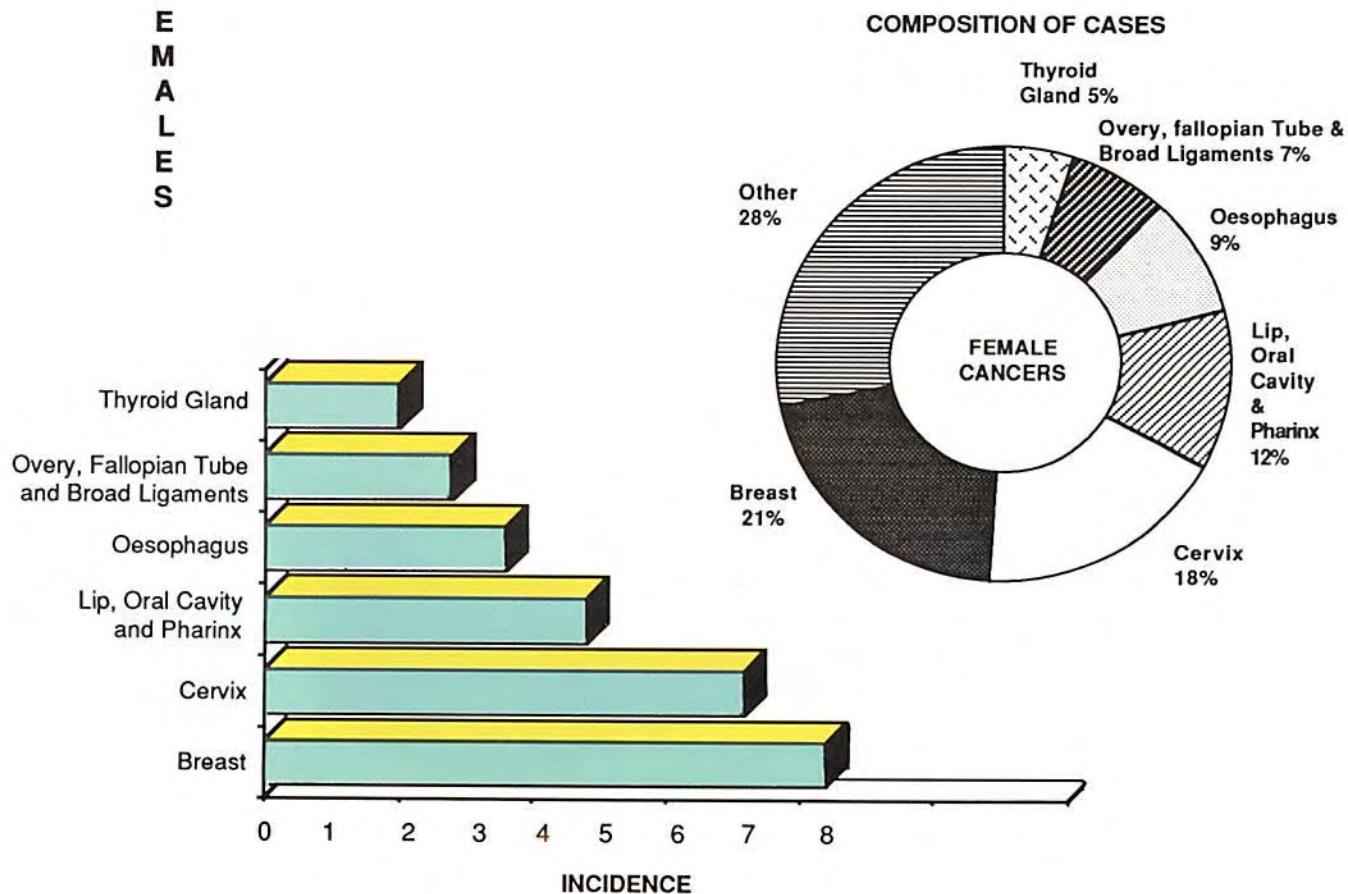
Site	Number (%)	Incidence Rate	Median Age	Lifetime Risk
Breast	640 (20.7)	7.7	47.5	0.98%
Cervix Uteri	547 (17.7)	6.6	55.0	0.96%
Lip, Oral Cavity and Pharynx	375 (12.1)	4.5	60.0	0.67%
Oesophagus	290 (9.4)	3.5	58.0	0.56%
Ovary, Fallopian Tube and Broad ligaments	201 (6.5)	2.4	50.0	0.32%
Thyroid Gland	163 (5.3)	2.0	45.0	0.24%

LEADING CANCER SITES (1990)

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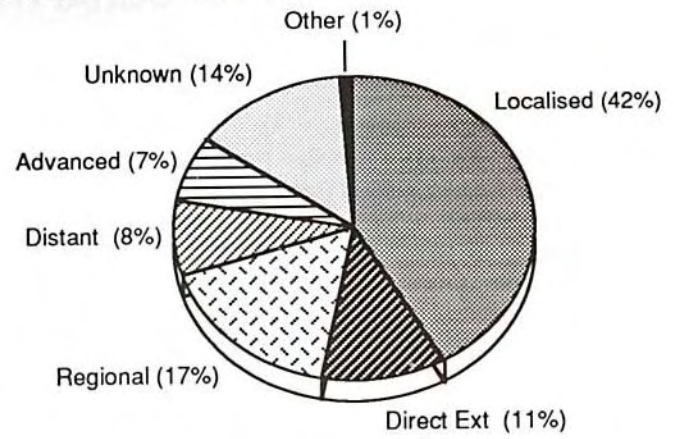


APPENDIX VI

CLINICAL STAGE AND TREATMENT

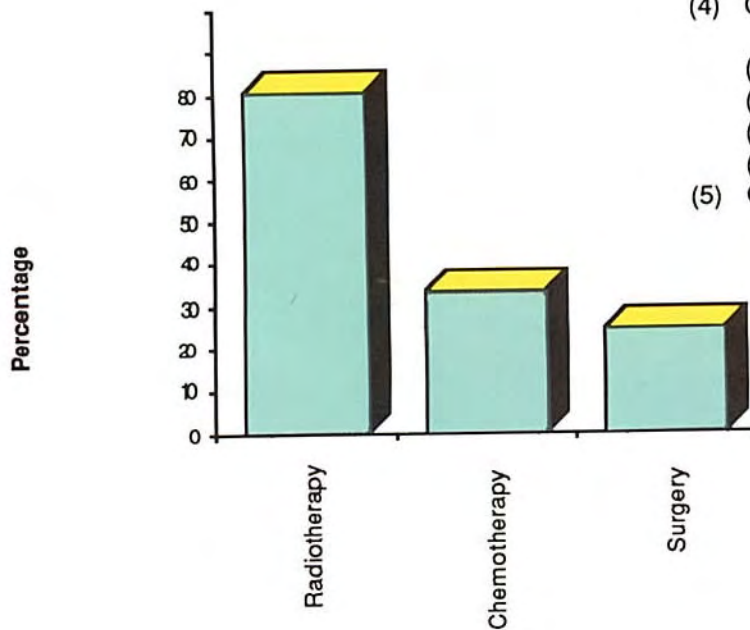
Clinical Stages

In situ	—	0.5%
Localised	—	42.7%
Direct Extensions	—	10.7%
Regional Lymph Nodes Involvements	—	17.4%
Distant Metastatics	—	7.9%
Advanced stages	—	6.9%
Unknown	—	13.9%
Total	—	100.0%



Treatment

(1) Surgery	—	24.5%
(2) Radiotherapy	—	80.5%
(3) Chemotherapy	—	33.3%
(4) Combined Treatments	—	37.0%
(1) + (2)	—	15.9%
(1) + (3)	—	3.0%
(2) + (3)	—	15.8%
(1) + (2) + (3)	—	2.3%
(5) Other	—	1.0%



APPENDIX VII

CANCER TOPOGRAPHY CODES ICD – O (1976)

140	LIP
141	Tongue
142	Salivary Gland
143	Gum
144	Floor of Mouth
145	Other & Unspecified Parts of Mouth
146	Oropharynx
147	Nasopharynx
148	Hypopharynx
149	Pharynx & Ill Defined Sites
150	Oesophagus
151	Stomach
152	Small Intestine
153	Colon
154	Rectum, Rectosigmoid Junction, Anal Canal & Anus
155	Liver & Intrahepatic Bile Ducts
156	Gallbladder & Extrahepatic Bile Ducts
157	Pancreas
158	Retroperitoneum & Peritoneum
159	Other Ill Defined Sites within Digestive Organs
160	Nasal Cavities, Sinuses, Middle & Inner Ear
161	Larynx
162	Trachea, Bronchus & Lung
163	Pleura
164	Thymus, Heart & Mediastinum
165	Other Ill Defined Sites Within Respiratory System
169	Hematopoietic & Reticuloendothelial System
170	Bones, Joints & Articular Cartilage
171	Connective, Subcutaneous & Other Soft Tissues
173	Skin
174	Female Breast
175	Male Breast
179	Uterus
180	Cervix Uteri
181	Placenta
182	Corpus Uteri
183	Ovary, Fallopian Tube & Broad Ligament
184	Other & Unspecified Female Genital Organs
185	Prostate Gland
186	Testis
187	Penis & Other Genital Organs
188	Urinary Bladder
189	Kidney & Other Urinary Organs
190	Eye & Lacrimal Gland
191	Brain
192	Other & Unspecified Parts of Nervous System
193	Thyroid Gland
194	Other Endocrine Glands
195	Other Ill-Defined Sites
196	Lymph Nodes
199	Unknown Primary Sites

APPENDIX VIII**BIBLIOGRAPHY**

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